AMENDMENTS TO THE CLAIMS

Please amend the claims without prejudice, as follows and consider the subsequent remarks/arguments. This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

Claims 1-3 (canceled)

4. (New) A two-way portable device, comprising:

a device body that has a thickness of 1mm or less and a switch;

a processing unit for processing instructions and computing data for the operation of the portable device and for generating a device information to be transmitted by the portable device, wherein the processing unit is contained within the device body;

a reception unit coupled to the processing unit for receiving data extracted from a physical wireless signal;

a transmission unit coupled to the processing unit for transmitting device information;

an input/output unit coupled to the transmission unit for generating a physical wireless signal based on the device information for transmission by the portable device upon the activation of the switch and coupled to the reception unit for receiving a plurality of physical wireless signals; and

a power and switching unit coupled to and for providing power to the processing unit, the reception unit, the transmission unit, and the input/output unit.

5. (New) The two-way portable device of claim 4, wherein the processing unit further comprises:

a microcontroller;

digital signal processing (DSP) logic;

smartdevice chip; and

a bus system coupling the microcontroller, DSP logic, and the

smartdevice chip.

6. (New) The two-way portable device of claim 4, wherein the transmission or reception unit comprises a transducer for converting between the device information and the physical wireless signal.

7. (New) The two-way portable device of claim 6, wherein the transducer includes:

a metal plate; and

a piezo ceramic material.

8. (New) The two-way portable device of claim 4, wherein the power and switching unit further comprises:

a battery; and

switch logic for determining when power should be applied to the

various components of the portable device.

9. (New) A portable device, comprising:

a device body that has a thickness less than 0.8 mm and a switch;

transmission electronics coupled to the switch that emit a wireless

signal when the switch is activated for a predetermined time

duration; and

mode logic for setting a mode of the portable device, wherein the

mode is determined by the length of time that the switch is

activated.

10. (New) A one-way portable device, comprising:

a device body that has a thickness less than 0.8 mm and a switch;

memory logic for storing device information; and

transmission electronics coupled to the switch that emit an acoustic

signal based on the device information in accordance with a first

data format when the switch is activated, the format comprising:

a first frequency shift keying (FSK) portion to identify a first frequency

in a FSK signaling scheme;

a second frequency shift keying (FSK) portion to identify a second

frequency in the FSK signaling scheme;

a synchronization portion for facilitating the proper reception of the

wireless signal;

a known portion that both the portable device and a targeted receiver

of the wireless signal knows;

a data portion comprising various combinations of the first frequency

and the second frequency to represent the device information;

and

an error checking code portion to allow some targeted receiver to

check for errors in the received data.

11. (New) The device of claim 10, wherein the first data format further
comprises:

a first frequency shift keying (FSK) portion to identify a first frequency

in a FSK signaling scheme;

a second frequency shift keying (FSK) portion to identify a second

frequency in the FSK signaling scheme;

a synchronization portion for facilitating the proper reception of the

acoustic signal by some target receiver;

a known portion that both the portable device and some targeted

receiver of the acoustic signal know;

a data portion comprising various combinations of the first frequency

   and the second frequency to represent the device information;

   and

an error checking code portion to allow some targeted receiver to

   check for errors in the received data.

12. (New) An online search system, comprising:

   a portable device including,

      a device body that has a thickness and a switch,

      a processor for processing instructions and computing data,

      reception electronics for receiving and recording sounds or

         sights, and

      transmission electronics coupled to the switch that emit the

         recorded sounds or sights when the switch is activated;

   a base station with a receiver and at least one application; and

   a server for receiving the recorded sounds or sights.

13. (New) The system of claim 12, wherein the server further comprises:

   a database including a plurality of audio samples; and

   a search engine for comparing the recorded acoustic signal with a

      selected plurality of audio samples in the database to find a

      match.

14. (New) The system of claim 13, wherein the transmission electronics
emit the recorded sounds or sights acoustically.

15. (New) A method of facilitating the registration of a portable device for
use in an online system, wherein the online system comprises a base station
with a receiver and a web browser; and the portable device includes memory
containing device ID information, a switch, a processor, and transmission

electronics that emit a wireless signal when the switch is activated, comprising steps:

> preparing a personal data file for the user;
>
> receiving the device information that was transmitted by the portable device via the wireless signal and received by the base station; and
>
> affiliating the device information with the personal data file of the user.

16. (New) An online interactive system for performing challenge-response, comprising:

> a server accessible on a wide area network, wherein the server delivers a digital certificate containing a server public key;
>
> a portable device including:
>> a device body that has a thickness and a switch;
>>
>> memory for storing device information;
>>
>> a processor for processing instructions and computing data;
>>
>> reception electronics for receiving wireless signals and decoding information therein including the server public key; and
>>
> transmission electronics coupled to the switch that emit a wireless signal when the switch is activated; and
>
> a base station with a receiver and at least one application.

17. (New) An interactive client computer system, comprising:

> a portable device including:
>> a device body that has a thickness and a switch;
>>
>> memory for storing device information;
>>
>> a processor for processing instructions and computing data; and
>>
>> transmission electronics coupled to the switch that emit a wireless signal when the switch is activated; and

a base station with a receiver and at least one application, wherein the
application includes:

security logic for checking the authenticity of the portable device
by examining the wireless signal and the device
information, and

certificate logic for generating a digital certificate; and

communications logic for sending the digital certificate and at
least a portion of the device information.

18. (New) The system of claim 17, wherein the portable device includes a
counter for holding a counter value and the device information includes the
counter value, and the security logic further comprises:

counter check logic for storing a last counter value representing the
counter value received from the last received wireless signal,
and for checking the counter value with the last counter value,
and if the counter value is greater than the last counter value,
then the wireless signal is presumed valid.

19. (New) An interactive computer system, comprising:

a portable device including:

a device body that has a thickness and a switch;

memory for holding device information;

a processor for processing instructions and computing data; and

transmission electronics coupled to the switch that emit a wireless
signal when the switch is activated, wherein the wireless signal
includes the device information; and

a base station with a receiver, and a plurality of applications, wherein
each application provides a function, wherein the base station
selects the function based on the device information.

20. (New) A two-way portable device for information exchange, comprising:

a device body that has a thickness less than 0.8 mm and a switch;

memory logic for storing device information;

reception electronics for receiving wireless signals; and

transmission electronics coupled to the switch that emit a wireless signal when the switch is activated, wherein the wireless signal includes the device information.

21. (New) The two-way portable device of claim 20, wherein the transmission electronics includes delay logic which selects a time delay, where the transmission electronics transmit the device information after the expiration of the time delay.

22. (New) An interactive computer system, comprising:

a portable device including,

a device body that has a thickness and a switch,

memory for holding device information,

a processor for processing instructions and computing data, and

transmission electronics coupled to the switch that emit a wireless signal when the switch is activated, wherein the wireless signal includes the device information and complies with a communications protocol;

a server for supporting a website; and

a base station with a receiver and at least one application, wherein the application is capable of detecting whether the server supports the communication protocol.

23. (New) An online interactive system for use with a portable device, the portable device includes a device body that has a thickness and a switch,

memory for storing device information, a processor for processing instructions and computing data, and transmission electronics coupled to the switch that emit a wireless signal having a first structure when the switch is activated, comprising:

a base station including a receiver, at least one application, wherein the application includes recording electronics for recording the wireless signal received by the receiver to generate a recorded wireless signal, and communications electronics for delivering the recorded wireless signal; and

a server including server communications electronics for receiving the recorded wireless signal and a decoder for decoding the recorded wireless signal to extract the device information therein for authenticating the portable device, and further including wireless signal check logic for comparing the first structure with an expected structure, the expected structure stored in the server for comparison.